Schottky barrier diode RB441Q-40

Applications

Low current rectification

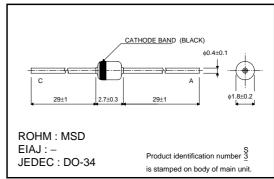
Features

- 1) Glass sealed envelope for high reliability. (MSD)
- 2) Small pitch enables insertion on PCBs.
- 3) Low V_F.(V_F=0.45V Typ. at 100mA)

●Construction

Silicon epitaxial planar

●External dimensions (Units : mm)



● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V _{RM}	40	V
DC reverse voltage	VR	40	V
Mean rectifying current	lo	0.1	А
Peak forward surge current	IFSM	1	Α
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-40~+125	°C

●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _{F1}	_	_	0.34	V	I _F =10mA
Forward voltage	VF2	_	_	0.55	V	I _F =100mA
Reverse current	IR	_	_	100	μΑ	V _R =40V
Capacitance between terminals	Ст	_	6.0	_	pF	V _R =10V, f=1MHz

Note) ESD sensitve product handling required.

●Electrical characteristic curves (Ta = 25°C)

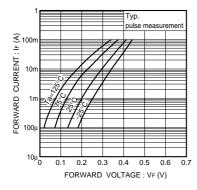


Fig. 1 Forward characteristics

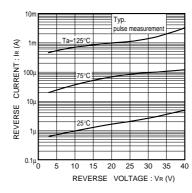


Fig. 2 Reverse characteristics

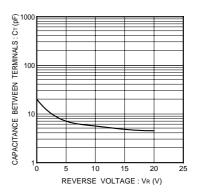


Fig. 3 Capacitance between terminals characteristics

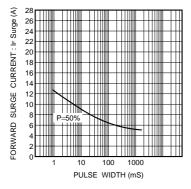


Fig. 4 Forward surge current characteristics

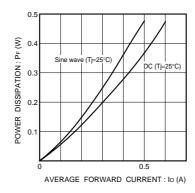


Fig. 5 Mean rectifying current characteristics

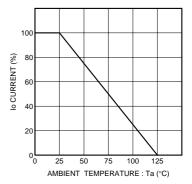


Fig. 6 Derating curve (mounting on glass epoxy PCBs)

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